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**PORTABLE  
UNDERWATER VIDEO SYSTEM  
MODEL UWS-3310**

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38190 Commercial Court  
Slidell, LA U.S.A. 70458  
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## UWS-3310

### OPERATING INSTRUCTIONS

1. To operate Camera System, all interconnections from the Control Unit, VCR & Monitor, should already be connected but in the event there is a problem drawing # 0010550 shows how those items connect.

**CAUTION:**

Insure voltage does not exceed 250 volts AC to the Console. Also power source must be properly grounded.

2. Power requirements, Typically 110 VAC to 250 VAC (50 or 60 Hz).
3. Plug Camera Umbilical into Camera and light (Be sure to use a good quality silicon grease for lubrication). Plug topside end of umbilical into Control Unit connector on front panel.
4. After verifying supply power is correct, insure camera, light switches are in off position. Plug into power source.
5. Turn Monitor, Recorder and Camera switches on. A picture should appear within a few secs.
6. Insure "Light Intensity" is at "Min" position. Turn light switch on. Turn control up to test light. Turn back to Min. and Turn switch off.

**CAUTION:**

" Light can be operated out of water but will throttle back automatically if the temperature exceeds 50c. However the Light will never shut off completely.

7. The CON-3300 console only outputs 28 VDC maximum.



8.) To Use the recorder please refer to the DVR manual.

**Note:**

Read the recorder manual for more details concerning the operation of these recorders.

Any problems Please Contact:

**Outland Technology Inc.**

38190 Commercial Ct.

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☐ (985)847-1104, Fax (985)847-1106

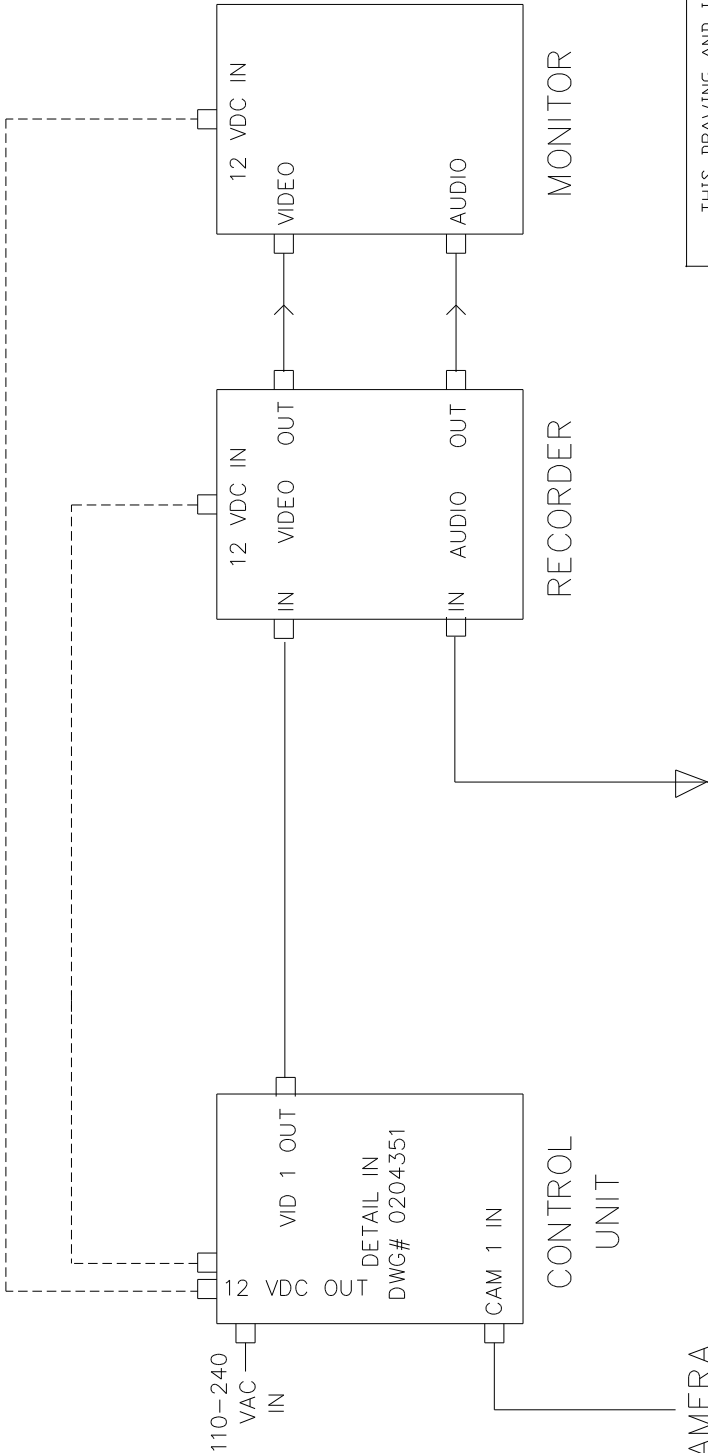
EMAIL: [sales@outlandtech.com](mailto:sales@outlandtech.com)

Website: <http://www.outlandtech.com>

## **QUICK START TO THE SD DVR 208**

- 1) When the System is shipped the DVR power switch is in the on position. (Switch moved to the right at the bottom of the DVR). To remove and install the SD card make sure you power the DVR off. Push on the SD card to hear a click and it will spring out slightly. Grab the card and remove. To install you will hear a slight click when it is in place. Flush with the body of the DVR.
- 2) The system, as received, will be set to record the highest quality and fastest frame rate. The recording will be set to break into 30 min chunks for ease of handling outside the DVR.
- 3) With camera and monitor connected, turn on the camera power switch. A picture will appear quickly.
- 4) To record, hit the "OK" button. A rec symbol will appear on the bottom left of the screen.
- 5) To stop hit the "Stop" Button.
- 5) To playback press "esc" twice. Use the arrow key to select the video to play and hit the "P/P" key to start play.
- 6) When not recording or playing back the number at the bottom right of the screen is the number of hours and minutes of space left to record on that SD card installed.

For more detailed operation of this DVR see the manual provided.



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CAMERA  
UMBILICAL  
DETAIL IN  
DWG# C-2303B-100m

TO DIVE RADIO

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TITLE

CON-3300 CONSOLE INTERCONNECTIONS

SIZE DOCUMENT NUMBER

0010550

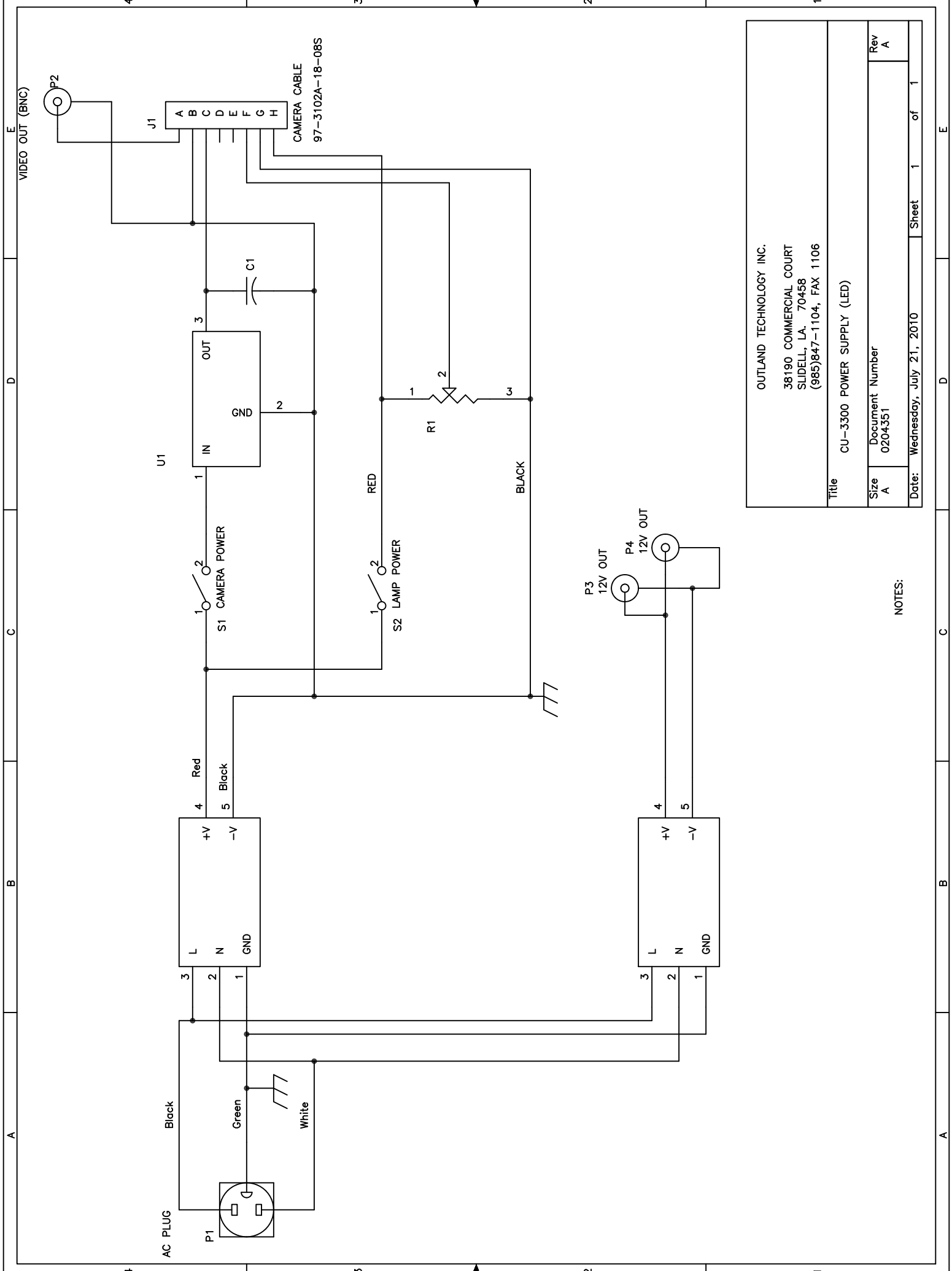
REV

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DATE:

JULY, 2010

SHEET

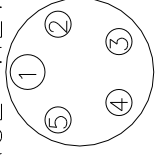


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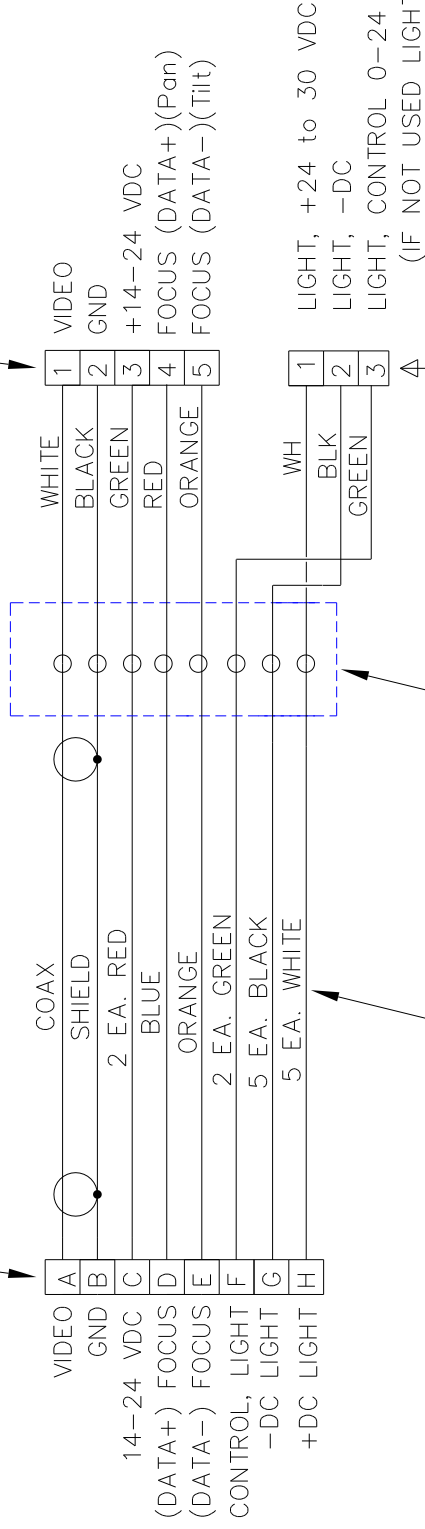
Title			CU-3300 POWER SUPPLY (LED)		
Size	Document Number			Rev	
A	0204351			A	
Date:	Wednesday, July 21, 2010	Sheet	1	of	1

NOTES:

RMK-5-FS  
CAMERA CONNECTOR  
FACE VIEW



MS3108B-18-08P



"Y" SPLICE

100m (330 ft) C-2300B CABLE  
.350 dia. GREEN

RMG-3-FS

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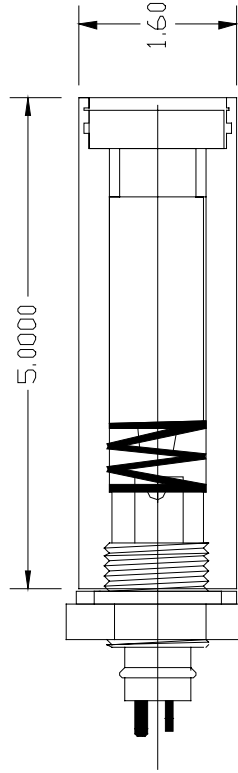
TITLE

C-2303B CABLE ASSEMBLY

SIZE	DOCUMENT NUMBER	REV
A	C-2303B-100m	

DATE: DEC., 2009 SHEET

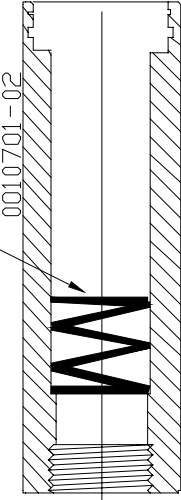
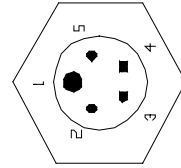




The camera comes out the front.  
Carefully remove the "C" clip.  
Carefully unscrew the connector.  
Remember there are wires running  
from the connector to the camera.  
Unsolder the 3 wires from the connector.  
push the camera and port out the front.  
Reverse the procedure to assemble.  
The camera must be purged when  
reassembling.

1" dia. x .062 x .875" "O"-RING 2-028

XSK-5-BCL



1" dia. x .062 x .875" "O"-RING 2-028

stainless spring  
0010701-02

PORT PT# 0010701-01

PORT RETAINER  
PT# 1813

"O" ring 2-217

CONNECTOR  
PT# 1026

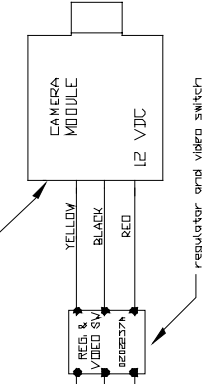
DELIN HOUSING  
PT# 0010700

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MATE  
RNK-5-FS

WH	1	VIDEO OUT	1
BLK	2	COMMON	2
GR.	3	+13-30 VDC	3
RD	4	N.C.	4
DR	5		5



CAMERA PT# 5407 (ntsc) 5407/p (pal)

YELLOW  
BLACK  
RED  
regulator and video switch

CAMERA MODULE  
12 VDC

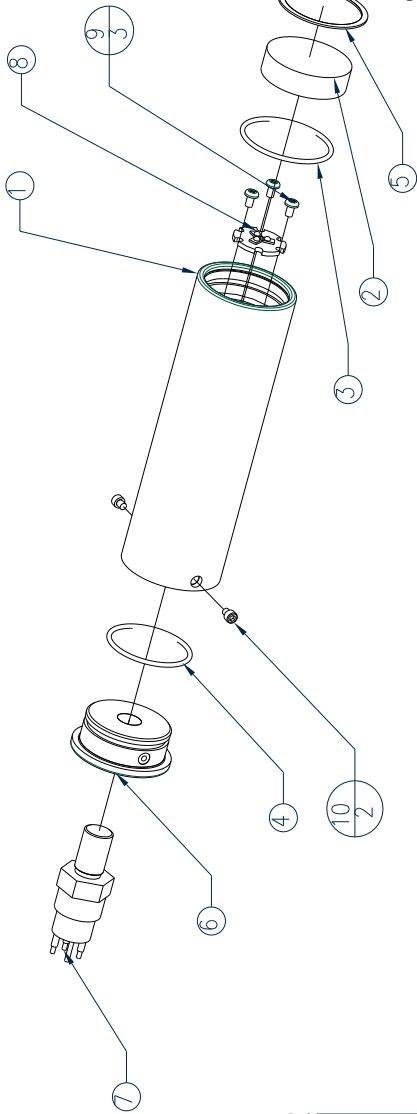
TITLE UWC-325-P ASSEMBLY

SIZE A	DOCUMENT NUMBER 0010700	REV
DATE: OCT., 2001	SHEET	

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ITEM NO.	QTY	PART NUMBER	DESCRIPTION	REV	MATERIAL	VENDOR
1	1	UWL-401-01	LED LIGHT HOUSING	-	STAINLESS STEEL 316L	
2	1	0010701-01	VIEWPORT	-	ACRYLIC	
3	1	2-028	O-RING		BUNA-N	
4	1	2-026	O-RING		BUNA-N	
5	1	VH137S16	PORT RETAINING RING	-	STAINLESS STEEL	SMALLEY
6	1	UWL-401-02	LED LIGHT END CAP	-	BLACK ACETAL	
7	1	XSG-3-BCL	3 PIN MALE CONNECTOR	-		
8	1	7007-PWC-XX-X	LED LIGHT MODULE	-		LUXDRIVE
9	3		PHP #4-40 UNC X 3/16		STAINLESS STEEL	
10	2		SHCS #4-40 UNC x 1/8		STAINLESS STEEL	



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UNLESS SPECIFIED OTHERWISE DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:		CAB GENERATED DRAWING DO NOT MANUALLY UPDATE	
FRACTIONS	DECIMALS	APPROVALS	DATE
± 1/16	± 0.005	DRAWN	3/17/08
ANGLES	± 1/2 deg	CHECKED	3/18/08
MATERIAL	XX4.005	GJM	
FINISH		APPROVED	3/18/08
WEIGHT	.442 LBS	CJD	
		CAGE CODE:	ORAP1

WHITE	1	+24 VDC
BLACK	2	24 VDC GROUND
GREEN	3	0-24 VDC CONTROL

MATING CONNECTOR RMG-3-FS



NOTES:  
1 - ALL DIMENSIONS APPLY AFTER ANY COATING

TITLE	
LED LIGHT	
SIZE	DOCUMENT NUMBER
B	UWL-401
SCALE:	1:2

SHEET 1 OF 1

# **OUTLAND TECHNOLOGY INC.**

## **UWL-401 UNDERWATER LIGHT**

Operating and Maintenance Procedures

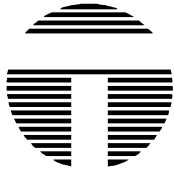
Reference: DRAWING UWL-401

### **Installation and Operation:**

- A. The UWL-401, can be mounted to your Camera, ROV, Helmet or Hand bracket by using DHM-60 OR HM-300 helmet bracket.
- B. **With Power Off**, lubricate the light mating connector with a light coating of silicon lubricant. Slide the locking sleeve of the mating connector back. Align the raised dot on the connector with the large connector pin on the light connector and plug in. Securely tighten the locking sleeve.

**THERE ARE NO USER SERVICEABLE PARTS INSIDE. PLEASE SEND BACK TO THE FACTORY FOR SERVICE.**

**The only maintenance required is to flush with fresh water and dry for storage.**



## OUTLAND TECHNOLOGY INC.

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Website: [www.outlandtech.com](http://www.outlandtech.com)

### LIMITED WARRANTY

Outland has a strong commitment to high quality production. Each product has a twelve (12) month limited warranty against defects in workmanship or materials with the exception of those outlined in the limitations and exclusions. Outland will repair or replace at its discretion the defective components.

#### Limitations and Exclusions

- The limited warranty does not cover damage caused by improper use, poor maintenance or accidental damage of the product or its components.
- The limited warranty does not cover items subject to wear including but not limited to view ports, o-rings, umbilical, unless found to be defective in workmanship and/or materials.
- The limited warranty does not cover any modification made to these products without authorization from Outland Technology Inc.
- The limited warranty does not cover lamps.
- The limited warranty does not cover components damaged due to incorrect power connection per user's manual.
- The limited warranty does not cover items not actually built by Outland. Example (DVD recorder, Monitor etc.). That would be covered by the manufacturer's warranty.

Advertising claims made by us represent our honest opinion of the qualities and features offered by the products described. We disclaim any warranties expressed or implied, including warranties of merchantability and fitness for a particular purpose, except as provided herein. In no event shall Outland Technology be liable for consequential damages of any kind.

#### Shipping

All returns for warranty service must be authorized by Outland. You must call or email Outland for a RMA#. The assigned RMA (Returned Materials Authorization) number which must be clearly indicated on each item returned for service.

**NOTE:** To submit a product or its components for warranty a RMA form must be completed.  
Please complete as best and detailed as possible.

For warranty shipping within the first 30 days, Outland will pay for ground shipment on domestic orders incoming and outgoing to a maximum of \$75.00 each way. International shipments will be credited up to \$75.00 US for incoming and outgoing freight charges to Outland Technology Inc.

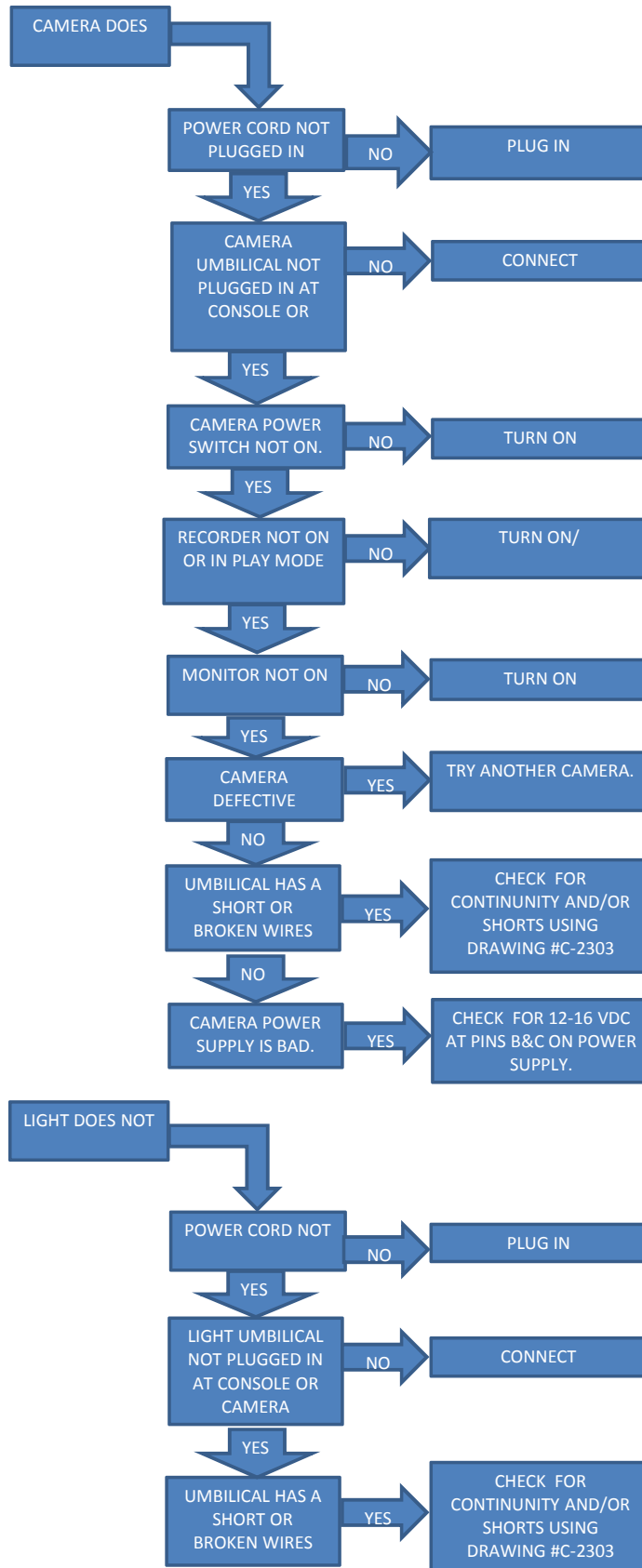
After 30 days the client is solely responsible for shipping to and from Outland Technology Inc.

During the first 30 days of the warranty period, should faster delivery service be requested, a \$75.00 US credit towards expedited freight for each applicable leg will be given.

If you have any questions regarding the installation and operation of this equipment, or if more information is needed contact:

OUTLAND TECHNOLOGY, INC.,  
38190 Commercial Ct., Slidell, LOUISIANA USA 70458  
(985)847-1104 FAX (985)847-1106  
(Email) [sales@outlandtech.com](mailto:sales@outlandtech.com)  
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## TROUBLESHOOTING GUIDE

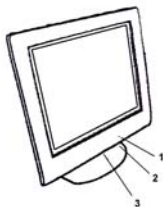


**12" TFT-LCD MONITOR**  
**WITH**  
**VIDEO INPUTS**

**288 Video Series**  
**USER'S MANUAL**

# 1. Control Functions

The monitor digital control functions are located on the front panel. They are shown in the figure below and described in the following paragraphs.



1. Power indicator LED
2. Power switch
3. Function keys

## **Function Selection**

1. Press the knob “MENU/SELECT” to show the OSD menu. Then use the “▲” and “▼” to select a function. Press the knob “AUTO/EXIT” to close the OSD menu.
2. With the knob “▲” and “▼”, you can adjust the speaker volume on the monitor.
  - When you press the “▼”, the speakers are mute. Press the “▲” and then the speakers are active.
  - When you press the knob “▲”, the speaker volume OSD is shown. You can increase or decrease the volume by pressing the “▲” and “▼”.
3. You can hold the knob “AUTO/EXIT” for more than 1 second to adjust the image quality automatically.

The OSD menu will close automatically after 3-10 seconds without operation and saves any changes you have made.

## **Function Adjustments**

### **1. Signal Select**

When there is no OSD menu display the knob “AUTO/EXIT” can select VGA / DVI / CVBS / S-VIDEO.

## 2. Video

Contrast - Adjust the difference in luminance between light and dark areas of the image.



Brightness - Adjust the luminance level of the image.



Colour - Adjust the Color level of the image





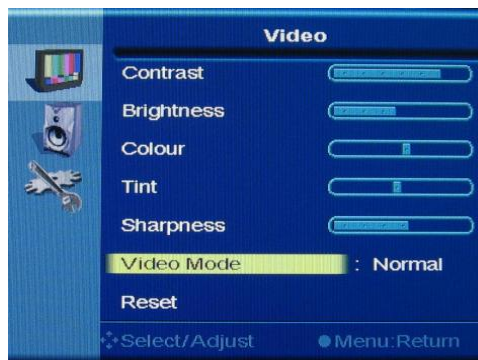
Tint - Adjust the Tint level of the image



Sharpness - Adjust the Sharpness level of the image



Video Mode - Adjust the Video Mode for  
Normal/Nature/Cinema/Sport/Vivid



Reset

- Recall the factory setting of the **Vide** menu.



## VGA

Contrast

- Adjust the difference in luminance between light and dark areas of the image.



Brightness

- Adjust the luminance level of the image.



Sharpness - Adjust the Sharpness level of the image



Color Temperature - Adjust Color Temperature

Cool(9300k)/User/Warm(6500k)/Nature(7500k)



User RGB - Adjusting R/G/B level of the image



## Image



Auto Tune - Adjust geometry of the image automatically.

Position - Adjust the vertical & horizontal position of the image.

Phase - Adjust the horizontal sync phase of signal.

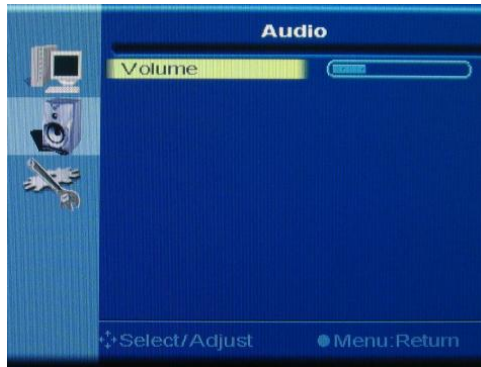
Clocks - Adjust the horizontal sync size of signal.

Reset - Recall the factory setting of the **VGA** menu.



### 3. Audio (Video & VGA)

Volume - Adjust the speaker volume.



#### 4. Feature Controls (Video & VGA)

Sleep Timer - Select 10/20/30/40/50/60/70/80/90/Off



Language -Select Language English/Fran/Deu/Esp/Ita



OSD Controls -Select OSD Position /Rotation/Timer



Factory Recall - Recall Factory setting



## 2. Product Specifications

### 7.1 288V series product specifications

Model	288V Series
<b>Features</b> Panel Type: Screen Size: Pixel Pitch: Brightness: Contrast Ratio: Response Time: Viewing Angle(H / V) Max. Resolution: Display Color	Active TFT-LCD 12" diagonal 0.3075 (W) x 0.3075 (H) mm Typical: 400 cd/m <sup>2</sup> Typical: 500:1 Typical: 35 ms Typical: 140° / 110° 800 (W) x 600 (H) 262 K
Video Input	Analog: 15-pin, D-sub connector x1 S-Video x1, RCA composite x1 Digital: DVI connector (optional)
Display Area	9.7 (W) x 7.2 (H) inch [246 (W) x 184 (H) mm]
Input voltage: Output rating:	100-240V /60-50Hz 12V DC, 2.0A
Power Consumption	25 watts (max.), 3 watts (standby)
Audio	1.0 watts x 1 built-in speaker RCA composite x1
Frequency	Horizontal:30-47 KHz; Vertical: 50-75 Hz
Dimensions(set size)	13.4 (H) x 14.4 (W) x 7.7 (D) inch [340(H) x 365(W) x 195(D) mm]
Safety & EMI	UL, CUL, FCC-B, CB, CE, TUV/GS
Weight	N.W.: 6.6 lbs (3.0 Kgs) G.W.: 7.9 lbs (3.6 Kgs)
Operating Conditions	5°C – 35°C; 20%-80% RH
Storage Conditions:	-20°C – 60°C; 10%-90% RH
Wall mountable	Yes, VESA 75 bracket

The typical value of brightness, contrast ratio, response time and viewing angle is subject to change without notice.

# HD Mini DVR

## User Manual

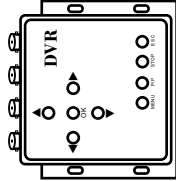
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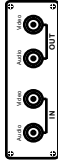
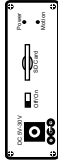


# Introduction

## Keyboard

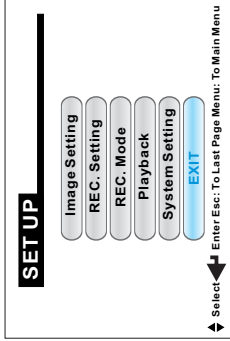


Key	Function
▲	Up/Volume up
▼	Down/Volume down
◀	Left/Fast forward
▶	Right/Fast reverse
OK	Ok/Record
MENU	Menu
PIP	Play/Pause/Delete files
STOP	Stop recording/Stop playback
ESC	ESC/Playback



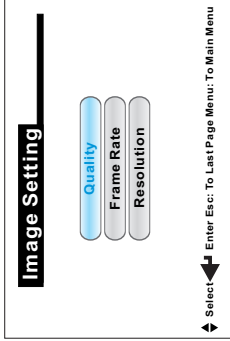
## Set up

Press "Menu" on keyboard to enter the following screen.



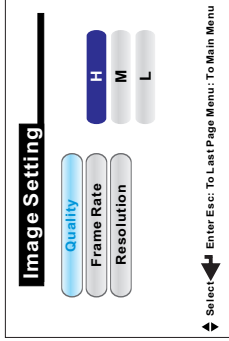
### I. Image setting

Press "OK" to enter image setting to set image quality/ frame rate/resolution.

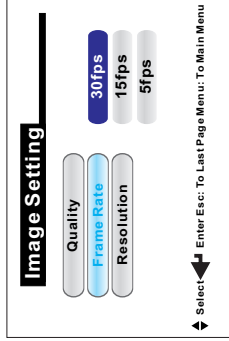


## HD Mini DVR

1. Press "OK" to enter image quality function, can set to be three types: High /medium /low

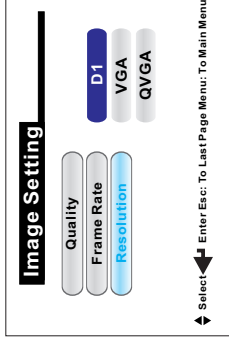


2. Press "OK" to set the frame: 30f/s, 15f/s or 5f/s. when you select 30f/s, the recorded video is real time.



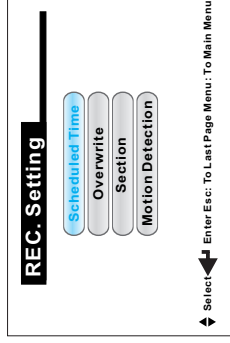
## HD Mini DVR

3. Press "OK" to set the resolution: D1/ VGA/ QVGA: The D1 video quality is better than VGA, VGA is better than QVGA.



## II. Recording Setting

Press "OK" to enter recording setting, can set Scheduled time/ Overwrite/ Section/ Motion detection.



## HD Mini DVR

1. Press "OK" to enter scheduled time function, can set the record period as following picture shows:

**Scheduled Time**

2010/10/24 07:30  
}  
2010/10/24 18:00

Select Enter Esc: To Last Page Menu: To Main Menu

2. Press "OK" to enter overwrite function, "Yes" means when memory is full, it will cover the earliest video automatically to keep the record going; "No" means when memory is full, it will stop recording.

**REC. Setting**

Scheduled Time  
Overwrite  
Section  
Motion Detection

Yes  
No

Select Enter Esc: To Last Page Menu: To Main Menu

5

## HD Mini DVR

3. Press "OK" to enter section function, can choose to set the video save as 15minutes/30minutes/one hour in a separate file.

**REC. Setting**

Scheduled Time  
Overwrite  
Section  
Motion Detection

15min  
15min  
1hr

Select Enter Esc: To Last Page Menu: To Main Menu

4. Press " OK" to enter motion detection, can set following functions: mask area/ sensitivity/ speed/ noise (this function only effective under recording mode).

**Motion Detection**

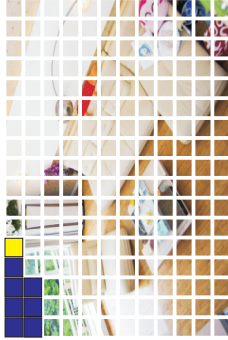
Mask Area  
Sensitivity  
Speed  
Noise Margin

Select Enter Esc: To Last Page Menu: To Main Menu

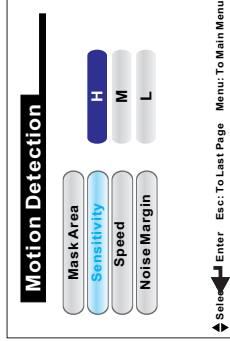
6

## HD Mini DVR

- 1) Press "OK" to enter "mask area" function as following:  
you can set cover(blue) or open each little square one by one.

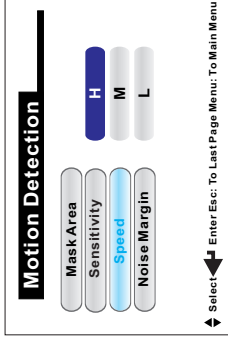


- 2) Press "OK" to enter "Sensitivity" function to set high/ middle/ low detection sensitivity.

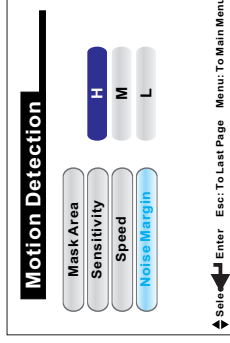


## HD Mini DVR

- 3) Press "OK" to enter "Speed" function to set high/ middle/ low speed detection sensitivity.



- 4) Press "OK" to enter "Noise Margin" to adjust the recording voice high/middle/low based on the environment voice.

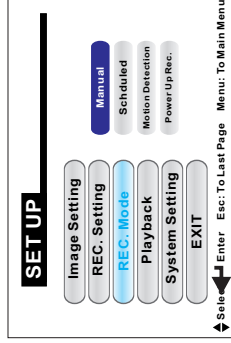


## HD Mini DVR

### III. Recording Mode:

4 modes to trigger recording (alarm function and motion detection with alarm function not available):

- Manual recording: press "OK" button to record.
- Scheduled recording: set a scheduled time to record; enter the menu "Recording Setting", set the time in "Reservation Time".
- Motion detection recording: trigger to record by motion detect.
- Power-up recording: automatically recording when power up.



## HD Mini DVR

### IV. Playback:

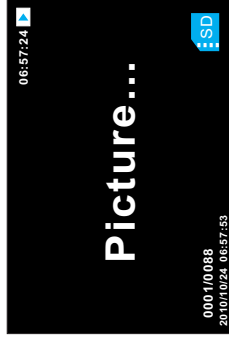
Press shift key to choose the file you want to play back, press "OK" to enter, then P/P key to start playing back the video.

Press shift key to choose the files you want to play back.

File Name	Date	Start Time
00000001	2010/10/24	06:57:54
00000002	2010/10/24	08:11:31
00000003	2010/10/24	13:55:24
00000004	2010/10/25	07:27:05
00000005	2010/10/25	07:28:35
00000006	2010/10/25	08:11:04
00000007	2010/10/26	22:56:14
00000008	2010/10/26	22:56:54

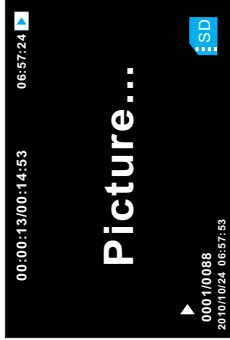
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Press OK to enter.

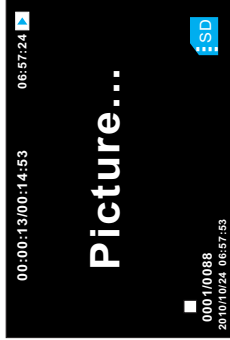


## HD Mini DVR

Press P/P to play back the video.



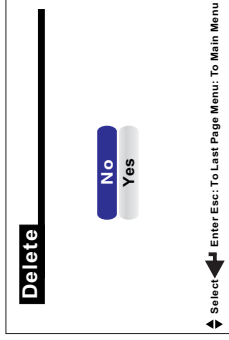
Press P/P to stop playing, and press P/P again to continue.



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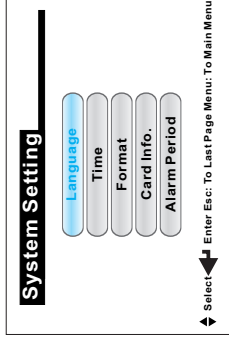
## HD Mini DVR

Press Esc to file list, choose a file, and press P/P to delete it.



### V. System Settings:

Press "OK" to enter system settings to set the language/time/format/SD card info./alarm period.

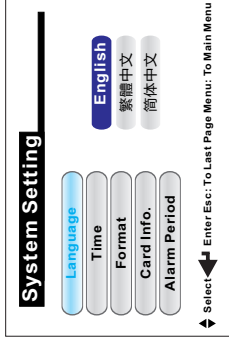


**Note:** Alarm Period is not available in this version.

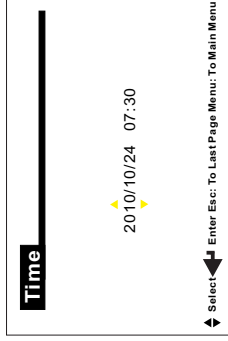
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## HD Mini DVR

1. Press "OK" to enter language function to choose English/ Traditional Chinese/ Simple Chinese



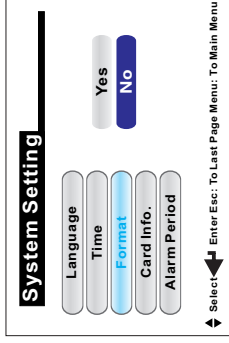
2. Press "OK" to enter time function to set the time.



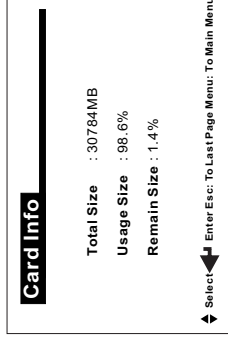
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## HD Mini DVR

3. Press "OK" to enter format function to format the useless videos.



4. Press "OK" to enter card info to check SD card capacity status.



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## HD Mini DVR

### Parameter

<b>Video</b>	
Format	Mpeg-4, Video for ASF
Resolution	704*576, 640*576, 320*288
Frame	30f/s, 15f/s, 5f/s
Video input	1V,75Ω
Video output	1V,75Ω
<b>Memory</b>	
Media	SD/ SDHC Card for 32GB
<b>Working theory</b>	
Manual recording	Yes
Schedule recording	Yes
Motion detective recording	Yes
Power up recording	Yes
<b>Power</b>	
Electricity input	DC 5V-30V
Power expend	<2W
Weight & Size	
G.W./Set	580g
Gift box size	20*13*6.5cm
<b>Language</b>	
English, Traditional Chinese, Simple Chinese	

**Note:** Please insert SD card before turning DVR up, and don't put SD card out when it is working in case of causing DVR halted.



## APPENDIX A:

### 5100A/I VIDEO TYPEWRITER OPTION: , TIME/DATE AND TEXT on screen,

- A. The Video typewriter powers up whenever the console is plugged in. The video always goes through the Video typewriter
- B. After powering on the system the screen should go to page zero "0". Anything in page zero will be displayed as well as time and date, if it were on the screen when it was powered off.
- C. Hit the "H" Key and the main menu will appear on the screen.
- D. Menu:
- | (KEY) | (FUNCTION)           |
|-------|----------------------|
| E     | EDIT PAGE 0          |
| C     | CLEAR PAGE 0         |
| T     | TIME OFF             |
| D     | DATE OFF             |
| S     | SET TIME             |
| R     | RESET SYSTEMS        |
| P     | SCALE (Ruler)        |
| X     | Cross Hair (Pointer) |
| I     | SET INTENSITY        |
| N     | Camera Mode          |

1) E; Go to the Page you want to edit by touching the number key. Touch the letter "E". This will bring you into the edit mode and you should see a Blinking cursor at the top left corner of the screen. Type in anywhere on the screen and when you finish hit the "ESC" key. The text will store in memory and the cursor will disappear.

2) C; Go to the page you want to clear and hit the letter C. The following will appear:

**ARE YOU SURE YOU WANT TO  
CLEAR PAGE 0 ? (Y/N)**

This will clear the page of all characters except the time and date. Select yes or no.

3) T; Hitting this key will turn the time either on or off.

4) D; Hitting this key will turn the date either on or off.

5) S; Hitting this key will allow you to set the time and date. The following will appear:

**( 12,51,5,21,99)**

**ENTER HR,MIN,MONTH,DAY,YEAR**

Input the time and date as shown with comas between each item followed by "ENTER".

6) R; Hitting this key will clear all pages. The following will appear:

**ARE YOU SURE YOU WANT TO  
CLEAR ALL MEMORY ? (Y/N)**

Select yes or no. The time and date will remain on screen.

7) P; Hitting this key will cause the Video Ruler to appear on the bottom of the screen. The Video typewriter time date features will continue to operate. The active keys to use this feature are:

"O", sets scale factor. 1=1, 2=2, 3=3, etc. for every tic mark. Minus for tic marks to the left and + for each tic mark to the right. The digital Display below and to the left of the scale is where on the Ruler the cursor marker is in relation to the center of the scale.

"Left Arrow" Key moves the cursor to the left on the ruler.

"Right Arrow" Key moves the cursor to the right on the ruler. The digital display moves up and down as these arrow keys are used.

"Home" Key moves the ruler tic marks wider.

"End" Key moves the ruler tic marks closer.

"Page Down" moves the center (offset) of the ruler Left.

"Page Up" moves the center (offset) of the ruler Right.

To use this feature set the scale factor for the required measurement. Move the center (offset) of the ruler to the center of the item to be measured. A reference must be used to accurately measure with the Video Ruler. If Laser dots are use then scale the ruler to those dots. Once the ruler is scaled using the "end"

and "Home" Keys, use the arrow key to show the measurement.

8) X; Hit this key and a Crosshair will appear on Screen. Use the cursor keys to move the crosshair (Video Pointer) around the screen. In this mode the Scale will disappear. The time and date will remain on Screen and all page functions will work also.

9) I; Hitting this key will bring up the following:

**SET INTENSITY LEVEL**

**0 MIN, 15 MAX >**

Default is 3. If you enter 0 then the characters will turn black. If 14 or 15 are entered then the character will probably be a little too bright. Play around with this and set for best display.

10) N; Hit this key and the camera control menu will appear. This is for controlling multiple cameras. If you only have one camera connected and it is a fixed focus camera disregard this function.

**IF AT ANY TIME THE VIDEO TYPEWRITER LOCKS UP, THE SYSTEM CAN BE RESET BY UNPLUGGING THE CONSOLE FROM THE POWER SOURCE. SIMPLY TURNING THE CAMERA, MONITOR AND DVR OFF WILL NOT WORK.**

APPENDIX B: MODEL CON-3300/DC CONSOLE ONLY.

- A) The CON-3300/dc can be powered by 12 to 24 VDC or 100-240 VAC 50/60 hz.
- B) The 12-24 VDC input can be used as a battery backup to the ac input power. Just connect the DC power and operate with the AC as usual. If AC power goes out the DC input battery will take over without hesitation.
- C) Connect the + (plus) lead to the RED terminal  
And the - (negative) lead to the Black terminal.

